(Venkataraman 1998) although by about three months the pups accompany the adults during hunts (Johnsingh 1982). However, the pack may not be completely mobile until about eight months (Venkataraman 1998).

ACKNOWLEDGEMENTS

We are grateful to Angulie Meyase for the information provided; Divyabhanusinh read the draft and offered valuable comments.

REFERENCES

- DURBIN, L.S., A. VENKATARAMAN, S. HEDGES & W. DUCKWORTH (2004): Dhole Cuon alpinus. Pp. 210-219. In: Sillero-Zubiri, C., M. Hoffmann & D.W. MacDonald (Eds): Canids: Foxes, Wolves, Jackals and Dogs. IUCN/SSC Canid Specialist Group, Gland.
- IUCN (2011): IUCN Red List of Threatened Species. Version 2011.2. <www.iucnredlist.org>.
- JOHNSINGH, A.J.T. (1982): Reproduction and social behaviour of the dhole Cuon alpinus Canidae. J. Zool. London 198: 443-463.
- PRATER, S.H. (1971): The Book of Indian Animals. 3rd ed. Bombay Natural History Society, Bombay. Reprinted with corrections 1980.
- SILLERO-ZUBIRI, C. (2009): Family Canidae (Dogs). Pp. 352-447. In: Wilson, D.E. & R.A. Mittermeier (Eds): Handbook of the Mammals of the World. Vol. 1. Carnivores. Lynx Edicions, Barcelona.
- VENKATARAMAN, A.B. (1998): Male-biased sex ratios and their significance for coopertive breeding in dhole *Cuon alpinus*. *Ethology 104*: 671-684.
- VENKATARAMAN, A. & A.J.T. JOHNSINGH (2004): Dholes. Pp. 323-335. In: MacDonald, D.W. & C. Sillero-Zubiri (Eds): The Biology and Conservation of Wild Canids. Oxford University Press, Oxford.

2. NORTHERN TREESHREW TUPAIA BELANGERI IN SOUTHERN MIZORAM, INDIA

NIMESH VED¹

Srinivas Nagar, Padma Rao Nagar, Secunderabad 500 025, Andhra Pradesh, India. Email: nimesh.ved@gmail.com

North-east India comprising of the states of Assam, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Meghalaya and Tripura forms a part of a rich biogeographic unit and is among the biodiversity 'Hotspots' of the world (Choudhury 1999; Myers *et al.* 2000; Ved and Lalramnuna 2008), Formerly referred to as Lushai Hills of southern Assam (Choudhury 2008), Mizoram is situated between 21.58°-24.33° N and 91.5°-93.29° E covering an area of 21,081 sq. km (Anon. 2006). In broad terms, the forests of Mizoram are classified as 'Cachar Tropical Evergreen (IB/C3)' and 'Cachar Semi Evergreen (2B/ C2)' (Champion and Seth 1964). Saiha in extreme south Mizoram shares a boundary with Lawngtlai to its north. Some of the best rainforests of north-east India are found in southern Mizoram, covering parts of the districts of Lawngtlai and Saiha (Choudhury 2006).

Treeshrews are entirely confined to South and Southeast Asia, and the latter region has the largest number of species. Of the three species found in South Asia, two are confined to the mainland, namely the Madras Treeshrew *Ananthana ellioti* Waterhouse 1849 in peninsular India and the Northern Treeshrew *Tupaia belangeri* Wagner 1841 in north-east India (Oommen and Shanker 2008). I here report two recent records of the Northern Treeshrew from southern Mizoram.

I saw a Northern Treeshrew at Tuipang (22° 18' 55.728" N; 93° l' 35.112" E), the headquarters of Tuipang block in Saiha district, on June 17, 2008. The shrew had been caught in a trap set in *jhum* (shifting cultivation) fields; was dead when I saw it. These non-baied traps, known as *mangkhawng*, are made using small logs and placed at the edge of crop fields (Ved and Lalramnuna 2008). This particular trap was c. 2.0-2.3 km from the town in a mosaic of old, new, and current shifting cultivation plots, with some village supply and safety reserves.



Fig. 1: Northern Treeshrew Tupaia belangeri at Saiha

I saw another treeshrew at our office in Saiha (22° 29' 15.4674" N; 92° 59' 8.16" E) on September 24, 2009, at 15:00 hrs. It had stopped raining and the sky had cleared. The treeshrew moved around young mango trees and shrubs about 3 m from the wall of our office in the middle of a primarily residential locality at the Saiha district headquarters. I saw it pushing plastic trash that jay around, presumably in search of food, and was also able to photograph it. I understand this is the only confirmed photographic record of the species in the wild from southern Mizoran.

Zonunmawia and Pradhan (2004) and Anon. (2006) did not list it. However, the treeshrew has been described in Reginald Lorrain's Seminal Mara (local language in Saiha) dictionary as 'Zyu-si - shrew mouse' (Lorrain 1912), implying its presence in the landscape.

ACKNOWLEDGEMENTS

I am indebted to Kashmira Kakati, Aparajita Data and Meera Oommen for identification with help of species and sharing of material. I thank S. Lalramnuna for the help at Tuipang and more importantly for being with me. Mr. Simon is acknowledged for the wonderful place that houses our home and office. I thank Samrakshan Trust, the organization I was then associated with.

REFERENCES

- ANON. (2006): Mizoram Forest 2006. Department of Environment and Forests, Aizawl, Mizoram. 93 pp.
- CHAMPION, H. & S.K. SETH (1964): A revised survey of the forest types of India. Forest Research Institutes and Colleges, Dehradun. 404 pp.
- CHOUDHURY, A.U. (1999): Mustelids, viverrids, and herpestids of northeastern India. ENVIS Bulletin: Wildlife and Protected Areas 2(2): 43-47.
- CHOUDHURY, A.U. (2006): The distribution and status of Hoolock Gibbon Hoolock hoolock in Manipur, Meghalaya, Mizoram and Nagaland in north-east India. Primate Conservation (20): 79-87.
- CHOUDHURY, A.U. (2008): A Pocket Guide to the Birds of Mizoram. Gibbon Books, Guwahati. 122 pp.

- LORRAIN, R. (1912): 5 Years in Unknown Jungles. Lakher Pioneer Mission. London. 264 pp.
- MYERS, N., R.A. MITTERMEIER, C.G. MITTERMEIER, G.A.B. DA FONSECA & J. KENT (2000): Biodiversity hotpots for conservation priorities. *Nature* 403: 853-858.
- OOMMEN, M.A. & K. SHANKER (2008): Ecology and behaviour of an endemic Treeshrew Tupaia nicobarica Zelebor 1869 on Great Nicobar Island, India. J. Bombay Nat. Hist. Soc. 105(1): 55-63.
- VED, N. & S. LALRAMNUNA (2008): Yellow-bellied Weasel Mustela kathiah records from Mizoram, India. Small Carnivore Conservation (39): 35-36.
- ZONUNMAWIA, A. & N. PRADHAN (2004): Mizoram and its wildlife. Center for Environment Protection, Aizawl. 69 pp.

3. CONGREGATION PATTERN OF RED JUNGLEFOWL GALLUS GALLUS IN DUDHWA NATIONAL PARK, UTTAR PRADESH, INDIA

KALEEM AHMED^{1,2} AND JAMAL A. KHAN^{1,3}

'Conservation Ecology Research Group, Conservation Monitoring Centre, Department of Wildlife Sciences, Aligarh Muslim University, Aligarh 202 002, Utar Pradesh, India. 'Email: kaleemdar@gmail.com 'Email: sccretarywsi@gmail.com

Dudhwa National Park (DNP) is situated on the Indo-Nepal border (28° 18°-28° 42′ N; 80° 28°-80° 27′ E) in Nigahsan subdivision of Lakhimpur-Kheri district of Uttar Pradesh. The area falls under the Terai-Bhabar biogeographic subdivision of the Upper Gangetic Plain (7A), biogeographic classification of Rodgers and Panwar (1988). In 1977, the DNP was declared as a national park with a core zone of 490 sq. km and a buffer zone of 124 sq. km.

The Red Junglefowl (RJF) Gallus gallus is distributed along the foothills of Himalayas from Myanmar to northwestern India, extending southward into the hills of peninsular India (Ali and Ripley 1987). It also occurs in tropical and subtropical habitats in southern China and South-east Asia, and has been introduced at several places (Sullivan 1991). To the north its distribution is limited by the Himalayan mountain range (Collias and Collias 1967). Leed Junglefowl is common in DNP and occurs in different habitats, such as al forest, mixed forest and teak forest (Javed and Rahmani 2000). Data on flocking composition of Red Junglefowl were collected from December 2005 to June 2007 in DNP, with an intensive study area of Dudhwa and Sonaripur ranges. Data was collected using vehicular transect, foot transect and in opportunistic records during the study period. A total of 635 individuals of the Red Junglefowl were seen during study period comprising 204 groups, out of which 428 individuals were seen in summer and 207 in winter. Chicks were also observed (n = 4) during May 2006 and June 2007 in sal forest only. Overall, the number of males were higher than the females (308 males to